Hazard ID Checklist

	lammables ases or Liquids)	Gases			Hazardous Chemicals		Other Hazardous /Toxic Materials	
Type:		Type:				Cyanide plating materials	List any other hazardous/toxic materials	
Flow rate:		Flow rate:				Hydrofluoric Acid	planned for use:	
Capacity:		Capacity:				Methane		
Radioactive Sources		Metals of Concern				photographic developers		
	Permanent Installation	Beryllium (Be)				PolyChlorinated Biphenyls (PCBs)		
	Temporary Use	Lithi	Lithium (Li)			Scintillation Oil		
Type:		Merc	Mercury (Hg)			Triethylamine (TEA)		
Strength:		Lead	Lead (Pb)			Tri-MethylaMino Ethyl (TMAE)		
Nuclear Materials*		Tungsten (W)				Other: (Activated Water?)		
Name:		Uran	ium (U)					
Weight:		Other	Other:		Lasers			
Mechanical Structures		Electrical Equipment				Permanent installation		
	Lifting Devices	Cryo/Electrical devices				Temporary installation		
	Motion Controllers	Capacitor Banks				Alignment		
	Scaffolding/ Elevated Platforms	High Voltage/High Amperage			Calibration			
	Other:	Expo	Exposed Equipment over 50 V		Type:			
			Non-commercial/Non-PREP		Wattage:			
		Modi	ified Comm	nercial/PREP	MFR Class:			
Vacuum Vessels		Pressure Vessels		Cryogenics				
Inside Diameter:		Inside Diameter:			Inert cryogenic liquids			
Operating P	Pressure:	Operating I	rating Pressure:			Hydrogen cryo liquids		
Window Ma	aterial:	Window M	Window Material:			Other cryo liquids		
Window Thickness:		Window Thickness:						

I. *NUCLEAR MATERIALS

Reportable Elements and Isotopes / Weight Units / Rounding

Name of Material	MT Code	Reporting Weight Unit Report to Nearest Whole Unit	Element Weight	Isotope Weight	Isotope Weight %
Depleted Uranium	10	Whole Kg	Total U	U-235	U-235
Enriched Uranium	20	Whole Gm	Total U	U-235	U-235
Plutonium-242 ¹	40	Whole Gm	Total Pu	Pu-242	Pu-242
Americium-241 ²	44	Whole Gm	Total Am	Am-241	_
Americium-243 ²	45	Whole Gm	Total Am	Am-243	_
Curium	46	Whole Gm	Total Cm	Cm-246	_
Californium	48	Whole Microgram	_	Cf-252	_
Plutonium	50	Whole Gm	Total Pu	Pu-239+Pu-241	Pu-240
Enriched Lithium	60	Whole Kg	Total Li	Li-6	Li-6
Uranium-233	70	Whole Gm	Total U	U-233	U-232 (ppm)
Normal Uranium	81	Whole Kg	Total U	_	_
Neptunium-237	82	Whole Gm	Total Np	_	_
Plutonium-238 ³	83	Gm to tenth	Total Pu	Pu-238	Pu-238
Deuterium ⁴	86	Kg to tenth	D_2O	D_2	
Tritium ⁵	87	Gm to hundredth	Total H-3	_	_
Thorium	88	Whole Kg	Total Th	_	_
Uranium in Cascades ⁶	89	Whole Gm	Total U	U-235	U-235

¹ Report as Pu-242 if the contained Pu-242 is 20 percent or greater of total plutonium by weight; otherwise, report as Pu 239-241.

II. OTHER GAS EMISSIONS

Greenhouse Gases (Need to be tracked and reported to DOE)

Carbon Dioxide, including CO ₂ mixes such as Ar/CO ₂
Methane
Nitrous Oxide
Sulfur Hexafluoride
Fluorinated Gases (eg; Hydrofluorocarbons, perfluorocarbons)
Nitrogen Trifluoride

² Americium and Neptunium-237 contained in plutonium as part of the natural in-growth process are not required to be accounted for or reported until separated from the plutonium.

³ Report as Pu-238 if the contained Pu-238 is 10 percent or greater of total plutonium by weight; otherwise, report as plutonium Pu 239-241.

⁴ For deuterium in the form of heavy water, both the element and isotope weight fields should be used; otherwise, report isotope weight only.

⁵ Tritium contained in water (H2O or D2O) used as a moderator in a nuclear reactor is not an accountable material.

⁶ Uranium in cascades is treated as enriched uranium and should be reported as material type 89.